

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Currently amended) An electric machine with, comprising:
a cylindrical magnet arrangement ~~[[(2)]]~~; and
a cooling device for cooling the magnet arrangement ~~[[(2)]]~~,
~~characterized in that~~ wherein the cooling device has a coolant channel (7), ~~by~~
~~means of which~~ for distributing a coolant ~~can be distributed~~ essentially
uniformly in the a circumferential direction of the cylindrical magnet
arrangement ~~[[(2)]]~~.
2. (Currently amended) The electric machine as claimed in claim 1, ~~which has~~
further comprising a housing ~~[[(1)]]~~, the coolant channel ~~[[(7)]]~~ being part of
the housing ~~[[(1)]]~~.
3. (Currently amended) The electric machine as claimed in claim 1 ~~[[or 2]]~~,
wherein the coolant channel ~~[[(7)]]~~ surrounding completely surrounds a
circumference of the magnet arrangement (2) ~~completely on the~~
~~circumference~~.
4. (Currently amended) The electric machine as claimed in ~~one of the~~
~~preceding claims~~ claim 1, wherein the coolant channel (7) ~~being~~ is interrupted
diagonally opposite a coolant entry ~~[[(8)]]~~.
5. (Currently amended) The electric machine as claimed in ~~one of the~~
~~preceding claims~~ claim 1, wherein ~~a laminated core of~~ the magnet
arrangement ~~[[(2)]]~~ has a laminated core forming a wall of the coolant
channel.

6. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, wherein the coolant channel (7) ~~being~~ is arranged upstream of the cylindrical magnet arrangement ~~[[(2)]]~~ in the an axial direction.
7. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, wherein the coolant channel (7) ~~being~~ is open in one or both axial directions, ~~and being capable of being covered with further comprising~~ a bearing shield ~~[[(4)]]~~ and/or an annular cover ~~[[(10)]]~~ for covering the coolant channel.
8. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, wherein one or more coolant entries ~~(8) being~~ are arranged on the coolant channel ~~[[(7)]]~~ radially and/or axially with respect to the cylindrical magnet arrangement ~~[[(2)]]~~.
9. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, which has further comprising a motor terminal junction box ~~[[(16)]]~~, wherein the coolant channel (7) ~~being~~ has a reduced in its dimension in the a radial direction in the a region of the motor terminal junction box ~~[[(16)]]~~.
10. (Currently amended) The electric machine as claimed in ~~one of claims 2 to 9~~ claim 2, wherein the housing (4) ~~consisting of~~ is constructed in the form of a pressure plate structure.
11. (Currently amended) A method for cooling an electric machine, ~~which possesses~~ having a cylindrical magnet arrangement ~~[[(2)]]~~, by comprising the steps of:
the conduction of introducing a coolant stream around the cylindrical magnet arrangement ~~[[(2)]]~~, characterized in that and

distributing the coolant stream, after being introduced into the electric machine at the commencement of the a cooling operation, ~~is distributed~~ essentially uniformly ~~on the~~ about a circumference of the magnet arrangement ~~[[(2)]]~~.

12. (Currently amended) The method as claimed in claim 11, wherein the coolant stream ~~being~~ is distributed on the magnet arrangement ~~[[(2)]]~~ completely ~~on~~ about the circumference before it ~~is~~ conducted further in a radial or axial direction.
13. (Currently amended) The method as claimed in claim 11 ~~[[or 12]]~~, wherein the coolant stream, when being conducted around the magnet arrangement ~~[[(2)]]~~ in a circumferential direction, is conducted directly past a laminated core of the magnet arrangement ~~[[(2)]]~~.
14. (Currently amended) The method as claimed in ~~one of claims 11 to 13~~ claim 11, wherein the coolant stream ~~being~~ is distributed in a circumferential direction upstream of the cylindrical magnet arrangement ~~[[(2)]]~~ in the an axial direction, before it ~~is~~ being conducted via about the magnet arrangement ~~[[(2)]]~~.
15. (Currently amended) The method as claimed in ~~one of claims 11 to 14~~ claim 11, wherein the coolant stream, after being distributed in the circumferential direction, ~~being~~ is conducted ~~further on~~ in both axial directions.